CLAIMS

- 1. An upwardly acting sectional door comprising, a plurality of panels, body portions
 2 of said panels constructed of a flexible polymeric material and having a front
 3 surface, a cladding covering said front surface of said body portions and having
 4 hooks at the upper and lower edges thereof, a hinge member at an edge of said
 5 body portion operatively engaging said hooks of adjacent of said panels to provide
 6 relative pivotal motion between said adjacent of said panels.
- A sectional door according to claim 1, wherein said hinge member is made of said
 flexible polymeric material.
- 1 3. A sectional door according to claim 1, further comprising, stiles covering the ends
 2 of said body portions and said cladding.
- A sectional door according to claim 1, wherein said hooks interengage for relative
 pivotal motion of said panels.
- 1 5. A sectional door according to claim 4, wherein said hinge member encompasses 2 said hooks when interengaged for relative pivotal motion of said panels.
- A sectional door according to claim 5, wherein said hooks of adjacent of said panels remain in sufficiently close proximity during pivotal motion of said panels such as to provide a pinch-resistant configuration.
- An upwardly acting sectional door comprising, a plurality of panels, facers of said panels defining a front surface of the door and having pivotal closure assemblies at the upper and lower edges thereof, end stiles at the ends of said panels adapted to receive the ends of said facers, and hinge assemblies located at said end stiles to provide relative pivotal motion between adjacent of said panels.

- 1 8. A sectional door according to claim 7 further comprising, coupler elements
- 2 operatively interrelated with said pivotal closure assemblies at one or more
- 3 locations on said facers intermediate said end stiles.
- 1 9. A sectional door according to claim 8, wherein said hinge assemblies define first
- 2 pivot axes between adjacent of said panels and said pivotal closure assemblies
- define second pivot axes, said coupler elements operating to maintain said second
- 4 pivot axes coincident with said first pivot axes.
- 1 10. A sectional door according to claim 8, wherein said coupler elements are
- deformable clips encompassing said pivotal closure assemblies.
- 1 11. A sectional door according to claim 10, wherein said clips are constructed of a
- 2 temporarily deformable material.

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- 1 12. A sectional door according to claim 10, wherein said pivotal closure assemblies
- are hooks at the upper and lower edges of said panels and said clips have a double
- 3 loop configuration enclosing said hooks of adjacent of said panels.
- 1 13. A sectional door according to claim 12, wherein said hooks of adjacent of said
- 2 panels remain in sufficiently close proximity during pivotal motion of said panels
- 3 such as to provide a pinch-resistant configuration.
- 1 14. A sectional door according to claim 12, wherein said hooks interengage for
- 2 relative pivotal motion of said panels.

1

- 15. A sectional door according to claim 7 further comprising, an insulation layer
- 2 provided behind said front surface of said facer.

- 1 16. A sectional door according to claim 15, wherein said insulation layer has a foam 2 material and a backer therefor.
- 1 17. A sectional door according to claim 15, wherein said insulation layer is solely mechanically retained in said panels.
- 1 18. A sectional door according to claim 17, wherein said insulation layer has upper 2 and lower edges which are confined and retained by said pivotal closure 3 assemblies and has end edges which are confined and retained by said end stiles.
- 1 19. A sectional door according to claim 18, wherein said end stiles have a rear flange 2 with an in-turned flap which engages said end edges of said insulation layer.
- 1 20. A sectional door according to claim 7, wherein said end stiles are generally U2 shaped members adapted to receive said front surface and said pivotal closure
 3 assemblies of said facers.
- 1 21. A sectional door according to claim 20, wherein said stiles have a front flange, a 2 rear flange, and a planar end spacing joining said front flange and said rear flange.
- 1 22. A sectional door according to claim 21, wherein said rear flange has an in-turned 2 flap directed toward said front flange which operates as a strengthening member 3 for said panels.
- A sectional door according to claim 7, wherein said hinge assemblies include an upper hinge pin receiver formed in said end stiles, a lower hinge pin receiver formed in said end stiles, and roller assemblies connecting an upper hinge pin receiver of one of said plurality of panels with a lower hinge pin receiver of an adjacent of said plurality of panels.

- 1 24. A sectional door according to claim 23, wherein said end stile has a planar end and said lower hinge pin receiver is a bore in said planar end of said end stile.
- 1 25. A sectional door according to claim 24, wherein said end stiles have a flange, said 2 upper hinge pin receiver is a cylindrical sleeve projecting from said flange of said 3 end stiles.
- A sectional door according to claim 25, wherein said roller assemblies have a roller shaft insertable in said bore and said cylindrical sleeve and serving as a pivot axis for relative pivotal motion between adjacent of said panels.
- A sectional door according to claim 26, wherein said roller shaft has spaced annular ribs limiting axial movement of said roller shaft relative to said bore and said cylindrical sleeve.
- A sectional door according to claim 27, wherein said flange of said end stile has an in-turned arcuate flange centered about said bore and engaging said pivotal closure assemblies and maintaining said pivotal closure assembly pivotally positioned in engagement with said cylindrical sleeve.
- A combined roller assembly and cable-securing device for an upwardly acting sectional door comprising, a door panel, an end stile on said door panel having an end surface, an aperture in said end surface of said end stile, a roller assembly having a roller shaft inserted in said aperture, a cable bracket having a collar adapted for securing a cable for operating the door and receiving said shaft of said roller assembly.
- 1 30. A roller and cable-securing device according to claim 29, wherein said collar has
 2 an internal diameter sufficiently larger than the diameter of said roller shaft such
 3 as to remain spaced therefrom during operation of the door.

1 31. A roller and cable-securing device according to claim 30, wherein said collar has 2 a groove adapted to receive the cable for operating the door.

6

- 1 32. A roller and cable-securing device according to claim 30, wherein said cable 2 bracket has a projection attached to said collar which is fastened to said end stile.
- An upwardly acting sectional pan door comprising, a plurality of panels, facers of said panels defining a front surface of the door and having cooperatively engaging closures at the upper and lower edges thereof, stiles at the ends of said facers receiving and attached to said facers, and hinge assemblies located at said end stiles to provide relative pivotal motion between said stiles and said closures of adjacent of said panels.
- 1 34. A pan door according to claim 33, wherein said cooperative engaging closures are generally hook-shaped members.
- 1 35. A pan door according to claim 34 further comprising, coupler elements supporting said cooperative engaging closures at a location intermediate said end stiles.
- 1 36. A pan door according to claim 35, wherein said coupler elements have a double loop encompassing said hook-shaped members to stabilize said closures and said panels during assembly and operation.